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OM nucleic - nucleic search, using sw model

Run on: May 18, 2002, 04:45:58 ; Search time 243.54 Seconds
(without alignments)
1516.533 Million cell updates/sec

Title: US-09-719-748-1_COPY_98_886

Perfect score: 789
Sequence: 1 tatgacacgcgagagagct.....cttcacacacccctgagtc 789

Scoring table:
IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 424068 seqs, 234053524 residues

Total number of hits satisfying chosen parameters: 848136

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Maximum Match 0%

Listing first 45 summaries

Database : Pending_Patents_NA_New:*
1: /cgn2_6/ptodata/1/pna/PCT_NEW_COMB.seq:*
2: /cgn2_6/ptodata/1/pna/US06_NEW_COMB.seq:*
3: /cgn2_6/ptodata/1/pna/US07_NEW_COMB.seq:*
4: /cgn2_6/ptodata/1/pna/US08_NEW_COMB.seq:*
5: /cgn2_6/ptodata/1/pna/US09_NEW_COMB.seq:*
6: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq:*
7: /cgn2_6/ptodata/1/pna/US60_NEW_COMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--|
| 1 | 443.4 | 56.2 | 5910 | 5 | US-09-053-375B-1246 Sequence 1246, Ap |
| 2 | 244.6 | 31.0 | 12638 | 6 | US-10-105-299-15131 Sequence 15131, A |
| 3 | 187.2 | 23.7 | 1449 | 5 | US-09-966-607-12 Sequence 12, Appl |
| 4 | 187.2 | 23.7 | 1530 | 5 | US-09-966-607-7 Sequence 7, Appl |
| 5 | 185.6 | 23.5 | 2386 | 1 | PCT-US02-10818-20 Sequence 20, Appl |
| 6 | 126.2 | 16.0 | 5007 | 5 | US-09-548-473B-3 Sequence 3, Appl |
| 7 | 126.2 | 16.0 | 7928 | 5 | US-09-548-473B-5 Sequence 5, Appl |
| 8 | 120.6 | 15.3 | 3165 | 5 | US-09-053-375B-757 Sequence 757, App |
| 9 | 112 | 14.2 | 2337 | 1 | PCT-US02-10786-1 Sequence 1, Appl |
| 10 | 112 | 14.2 | 2337 | 6 | US-10-116-326-1 Sequence 1, Appl |
| 11 | 109.4 | 13.9 | 1640 | 5 | US-09-053-375B-171 Sequence 171, App |
| 12 | 103.8 | 13.2 | 2112 | 1 | PCT-US02-10786-5 Sequence 5, Appl |
| 13 | 103.8 | 13.2 | 2112 | 6 | US-10-116-326-5 Sequence 5, Appl |
| 14 | 98.6 | 12.5 | 3081 | 5 | US-09-053-375B-774 Sequence 774, App |
| 15 | 97.8 | 12.4 | 1158 | 1 | PCT-US02-10787-1 Sequence 1, Appl |
| 16 | 97.8 | 12.4 | 1158 | 6 | US-10-116-326-1 Sequence 1, Appl |
| 17 | 96.6 | 12.2 | 301 | 5 | US-09-539-331D-5728 Sequence 5728, Ap |
| 18 | 91.2 | 11.6 | 275 | 5 | US-09-539-331D-37412 Sequence 37412, A |
| 19 | 89.4 | 11.3 | 293 | 5 | US-09-539-331D-19778 Sequence 19778, A |
| 20 | 78.4 | 9.9 | 5519 | 1 | PCT-US02-07826-136 Sequence 136, App |
| 21 | 78.4 | 9.9 | 5519 | 6 | US-10-097-340-136 Sequence 136, App |
| 22 | 77.4 | 9.8 | 2190 | 5 | US-09-053-375B-1205 Sequence 1205, Ap |
| 23 | 76.4 | 9.7 | 4175 | 5 | US-09-548-473B-2 Sequence 2, Appl |
| 24 | 76.2 | 9.7 | 3742 | 5 | US-09-954-531-978 Sequence 978, App |
| 25 | 75.8 | 9.6 | 2124 | 5 | US-09-634-443-1 Sequence 1, Appl |
| 26 | 73.2 | 9.3 | 1191 | 1 | PCT-US02-05670-1 Sequence 1, Appl |

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|----|------|-----|------|---|--|
| 27 | 73.2 | 9.3 | 1203 | 1 | PCT-US02-05670-3 Sequence 3, Appl |
| 28 | 69.8 | 8.8 | 267 | 5 | US-09-975-254-27139 Sequence 27139, A |
| 29 | 69.8 | 8.8 | 4417 | 1 | PCT-US02-08944-381 Sequence 381, App |
| 30 | 68.4 | 8.7 | 1247 | 5 | US-09-053-375B-765 Sequence 765, App |
| 31 | 67.2 | 8.5 | 472 | 5 | US-09-620-393B-1816 Sequence 1816, App |
| 32 | 67 | 8.5 | 532 | 5 | US-09-620-393B-511 Sequence 511, App |
| 33 | 65 | 8.2 | 2289 | 1 | PCT-US02-10786-3 Sequence 3, Appl |
| 34 | 65 | 8.2 | 2289 | 6 | US-10-116-326-3 Sequence 3, Appl |
| 35 | 62.8 | 8.0 | 260 | 5 | US-09-975-254-20094 Sequence 20094, A |
| 36 | 59.2 | 7.5 | 1149 | 5 | US-09-863-776-1 Sequence 1, Appl |
| 37 | 58.4 | 7.4 | 3153 | 1 | PCT-US02-09785-152 Sequence 152, App |
| 38 | 58 | 7.4 | 606 | 6 | US-10-106-698-2000 Sequence 2000, App |
| 39 | 56.8 | 7.2 | 1849 | 5 | US-09-053-375B-1250 Sequence 1250, App |
| 40 | 55 | 7.1 | 3120 | 6 | US-10-112-386-1 Sequence 1, Appl |
| 41 | 55.8 | 7.1 | 248 | 5 | US-09-975-254-24086 Sequence 24086, A |
| 42 | 54.8 | 6.9 | 1168 | 6 | US-10-099-926-1709 Sequence 1709, App |
| 43 | 54.2 | 6.9 | 249 | 5 | US-09-975-254-23658 Sequence 23658, A |
| 44 | 53.6 | 6.8 | 2610 | 5 | US-09-053-375B-1249 Sequence 1249, App |
| 45 | 52 | 6.6 | 2623 | 5 | US-09-053-375B-30 Sequence 30, Appl |

ALIGNMENTS

| | | | | | | | | | |
|--|-----|--|-----|--|--|--|--|--|--|
| RESULT 1 | | | | | | | | | |
| US-09-053-375B-1246 | | | | | | | | | |
| Sequence 1246, Application US/09053375B | | | | | | | | | |
| GENERAL INFORMATION: | | | | | | | | | |
| APPLICANT: Chenchik, Alex | | | | | | | | | |
| APPLICANT: Bibilashvili, Robert | | | | | | | | | |
| TITLE OF INVENTION: Nucleic Acid Arrays | | | | | | | | | |
| FILE REFERENCE: CLON-006 | | | | | | | | | |
| CURRENT APPLICATION NUMBER: US/09/053.375B | | | | | | | | | |
| CURRENT FILING DATE: 1998-08-31 | | | | | | | | | |
| NUMBER OF SEQ ID NOS: 1543 | | | | | | | | | |
| SOFTWARE: FastSeq for Windows Version 4.0 | | | | | | | | | |
| SEQ ID NO 1246 | | | | | | | | | |
| LENGTH: 5910 | | | | | | | | | |
| TYPE: DNA | | | | | | | | | |
| ORGANISM: Homo sapiens | | | | | | | | | |
| US-09-053-375B-1246 | | | | | | | | | |
| Query Match | | | | | | | | | |
| Best Local Similarity 72.6%; Pred. No. 9.3e-106; | | | | | | | | | |
| Matches 573; Conservative 0; Mismatches 216; Indels 0; Gaps 0; | | | | | | | | | |
| QY | 1 | tatgacacgcgagagagctgagagctgacatcgtgaagaagctgaggag | 60 | | | | | | |
| | | | | | | | | | |
| DB | 373 | tacgacacgcgcgagagactgagcagtgagacagcttgcgtgtgaaagaatgcgtgag | 432 | | | | | | |
| QY | 61 | aagagcagcgagctgagctgagctgagcagcaagtcacaaagcagcagcgagcagc | 120 | | | | | | |
| | | | | | | | | | |
| DB | 433 | aaagtcacgcgcctccagctgagcagcaatcacaagaaagagactaaatccagc | 492 | | | | | | |
| QY | 121 | cgagcggtgtgagcgcgagagatcgagcgagagtgagacatccgcgcgagctgtg | 180 | | | | | | |
| | | | | | | | | | |
| DB | 493 | cgagcggtgtgagcgcgagagatcgagcgagagtgagacatccgcgcgagctgtg | 552 | | | | | | |
| QY | 181 | caccacatgcatcagcagctgcatcagacacccagcagcagcagctgtgtacacat | 240 | | | | | | |
| | | | | | | | | | |
| DB | 553 | caccacatgcatcagcagctgcatcagacacccagcagcagcagcagcagctgtgtac | 612 | | | | | | |
| QY | 241 | ctgagctagctgtgagagagctcttcgattcctgtgcccagaagagctcagtc | 300 | | | | | | |
| | | | | | | | | | |
| DB | 613 | ctgagctagctgtgagagagctcttcgattcctgtgcccagaagagctcagtc | 672 | | | | | | |
| QY | 301 | gagagagagcagcagcagcttcaagcagagctctgtgagtggtggaactaccacaca | 360 | | | | | | |
| | | | | | | | | | |
| DB | 673 | gagagagagcagcagcagcttcaagcagagctctgtgagtggtggaactaccacaca | 732 | | | | | | |
| QY | 361 | aagaaattgctcatttgatcctcaagcacaacacattagctgttagacaagaatatt | 420 | | | | | | |
| | | | | | | | | | |

| | | | | | |
|---|---|--|------|---|------|
| D | b | | 723 | ctcaaaacgcccacttgcattgaatcctaagcctgagaacaataatgcttttgataganaatgtc | 792 |
| O | y | | 421 | cccatccaacaalcaaacgtgatctgacttgctgtgctgcctacgaagaatagaagtgaft | 480 |
| D | b | | 793 | cccaacacctgcgatcaagaatcgaatgacttgggttggccatataaattgaacttggaaac | 852 |
| O | y | | 481 | gaatttaagatatatttttggaacgccggaatttgtgtgtccagaaatltgtagacag | 540 |
| D | b | | 853 | gaatttaaaaacaatcttggagctccaagatttgttcgcctcgagtagtcaactatgaa | 912 |
| O | y | | 541 | ccccctggatctggagctgcagctgtgagagataggcgttatcacactcctcttaagt | 600 |
| D | b | | 913 | cctcttgcttgagagagatgatgtgagatcctggggttaataaccataatcctctaagt | 972 |
| O | y | | 601 | ggagatcccccttctcctgtggagacacagaaagcagaaacactggaacaatatcacacagt | 660 |
| D | b | | 973 | ggggccctcccaattctcttgagacactaagcaagaagcttagcaaatgatacgccttc | 1032 |
| O | y | | 661 | agttacgaactttatagagaattcttcacgccaatacgaagcagctgycgaagacttaatt | 720 |
| D | b | | 1033 | aactcaagaatttvgagatgtaattacttcagtaataccagtgccctagccaagaattcata | 1092 |
| O | y | | 721 | cggagaacttctgtttaaagaagaccggaaagcgccacaatccaagaagcctccaagaac | 780 |
| D | b | | 1093 | agaagactctgttcaagatccaagaagaagatgacaatccaagatagtttgacgcat | 1152 |
| O | y | | 781 | ccctgagatc | 789 |
| D | b | | 1153 | ccctgagatc | 1161 |

```

RESULT 2
US-10-105-299-15131
: Sequence 15131, Application US/10105299
: GENERAL INFORMATION:
: APPLICANT: Rosen, et. al
: TITLE OF INVENTION: Human Secreted Proteins
: FILE REFERENCE: PS950
: CURRENT APPLICATION NUMBER: US/10/105,299
: NUMBER OF SEQ ID NOS: 15197
: Prior Application removed - See File Wrapper or Palm
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 15131
: LENGTH: 12638
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-10-105-299-15131

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| Query Match | 31.0%; | Score 244.6; | DB 6; | Length 12638; |
|-----------------------|--|--------------------|----------------|---------------|
| Best Local Similarity | 79.6%; | Pred. No. 4,3e-54; | | |
| Matches 289; | Conservative | 0; | Mismatches 74; | Indels 0; |
| | | | | Gaps 0; |
| QY 25 | agtgccagcttcgcgcctcgtagaagagtcgagcgaggaagagacagggcttgaatgca | 84 | | |
| Db 6096 | agcgccagcttcgcgcctcgtagaagagtcgagcgaggaagagacagggcttgaatgca | 84 | | |
| QY 85 | gccaaagttcatcaagaagagcgagccgagccgagccgagctgctgtagacggagag | 144 | | |
| Db 6156 | gccaaagttcatcaagaagagcgagccgagccgagctgctgtagacggagag | 144 | | |
| QY 145 | atcgagcgagagctgagcatcctcgcgcaagtgtctgcacccaacatgtcatcagctgac | 204 | | |
| Db 6216 | atcgagcgagagctgagcatcctcgcgcaagtgtctgcacccaacatgtcatcagctgac | 204 | | |
| QY 205 | gacgcctctgaagaacagcagccagcctgctgcatcctctgagctagtgcttgagagag | 264 | | |
| Db 6276 | gacacatctcgagaaacagagcagcctgctgcatcctctgagctagtgcttgagagag | 264 | | |
| QY 265 | ctcttcgaattctctgcccagagagagcattgagtgtagagggagccacagcttaatt | 324 | | |
| Db 6336 | ctcttcgaattctctgcccagagagagcattgagtgtagagggagccacagcttaatt | 324 | | |

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RESULT      3
US-09-966-607-12
; Sequence 12, Application US/09966607
; GENERAL INFORMATION:
; APPLICANT: Robison, Keith E.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE AND
; TITLE OF INVENTION: PHOSPHATASE HOMOLOGUES AND USES THEREFOR
; FILE REFERENCE: MNT-196
; CURRENT APPLICATION NUMBER: US/09/966,607
; CURRENT FILING DATE: 2002-04-18
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 1449
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 249
; OTHER INFORMATION: n=any nucleotide
US-09-966-607-12

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| Query Match | 23.78; | Score 187.2; | DB 5; | Length 1449; |
|-----------------------|--|------------------|-----------------|-------------------|
| Best Local Similarity | 56.08; | Pred. No. 2e-39; | | |
| Matches 432; | Conservative | 0; | Mismatches 313; | Indels 27; Gaps 3 |
| QY 20 | ttgggagttgcacgattgtccatctctgtgaagaagtcggggagagacacagggcttgagt | 79 | | |
| Db 617 | ttggcagaagggcgtttccgcgcaggttccacaagtgtgtaggaagaagccacaaggtctgaacg | 676 | | |
| QY 80 | atgcagccaagtccatccaagaagcggcagaagccgggcgagccggcgggtgtgagccggg | 139 | | |
| Db 677 | tggcagcccaaaatccatccaagac-----cagaggtcatgaaggagaag | 718 | | |
| QY 140 | aggagaattcgagcggggagtgagatcccttcggcaggtgtctgaaccaaatgtccatcagc | 199 | | |
| Db 719 | aggagaattgagaagacagagatcagcgtctcaatgaacaaagcttgcacacgcgaaacccatccacgcg | 778 | | |
| QY 200 | tgcagaagctctatgagaacccgcacgcgaagctgtgtcacatcccttgaagctatgtcttgag | 259 | | |
| Db 779 | tgtacgatctcttcgagctctaaagaacagacattgtccctgtctcatgtgaatgtgtgtgtgtg | 838 | | |
| QY 260 | ggagagctcttga-----ttccctgcgcccaagagagatcactgagtgagaggaagggccaca | 316 | | |
| Db 839 | ggagagagctcttgcacgcgcacatctgcagttagagagctaacatttgaacgagctgtgataccatcc | 898 | | |
| QY 317 | ggttcattatagagatctccctgagctggggagaaacttccatccacaaagaagaatttgcact | 376 | | |
| Db 899 | tgttcattgaagagagatgtgtgtaggggataagggcacatgtcatcagatgtgtacatcttccact | 958 | | |
| QY 377 | tgtgatctcaagccagaaaacattatgtgtgttagaagaagaatattcccatcttcacacatca | 436 | | |
| Db 959 | tggacctgaagaccttgaatatatccctgtgtg-----gaatcggagatgtcttagaacaataa | 1012 | | |
| QY 437 | agctatgagacttgtgtgtgtctcgaagaatagagaatagagaggttgaatttaagaatttt | 496 | | |
| Db 1013 | aaattatgtatttggatcttgcgcagaagatacaaacccagagagaagactggaaggtgaact | 1072 | | |
| QY 497 | ttggagcgcgcggaatttgtctgtccagaagattgtgaactagagcccttggctcttgagg | 556 | | |
| Db 1073 | ttggagaccgcagaattcttcgccccttgaagtgtagaactatgatttgttcatcttccaa | 1132 | | |

[illegible]

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1 RESULT 5
2 PCT-US02-10818-20
3 ; Sequence 20, Application PC/TUS0210818
4 ; GENERAL INFORMATION:
5 ; APPLICANT: INCYTE GENOMICS, INC.
6 ; APPLICANT: Recipon, Shirley A.
7 ; APPLICANT: Burrill, John D.
8 ; APPLICANT: Marcus, Gregory A.
9 ; APPLICANT: Zingler, Kurt A.
10 ; APPLICANT: Tang, Y. Tom
11 ; APPLICANT: Thornton, Michael
12 ; APPLICANT: Borowsky, Mark L.
13 ; APPLICANT: Baughn, Mariah R.
14 ; APPLICANT: Burford, Neil
15 ; APPLICANT: Lee, Soo Yeun
16 ; APPLICANT: Bandman, Olga
17 ; APPLICANT: Hafalia, April J.A.
18 ; APPLICANT: Yao, Monique G.
19 ; APPLICANT: Rankumar, Jayalaxmi
20 ; APPLICANT: Walla, Narinder K.
21 ; APPLICANT: Lu, Dyung Aina M.
22 ; APPLICANT: Arvizu, Chandra S.
23 ; APPLICANT: Ison, Craig H.
24 ; APPLICANT: Ding, Li
25 ; APPLICANT: Lu, Yan
26 ; APPLICANT: Gururajan, Rajagopal
27 ; APPLICANT: Walsh, Roderick T.
28 ; APPLICANT: Gandhi, Ameena R.
29 ; APPLICANT: Swarnakar, Anita
30 ; APPLICANT: Forsythe, Ian J.
31 ; APPLICANT: Yue, Henry
32 ; APPLICANT: Au-Young, Janice K.
33 ; APPLICANT: Elliott, Vicki S.
34 ; APPLICANT: Lee, Sally
35 ; TITLE OF INVENTION: KINASES AND PHOSPHATASES
36 ; FILE REFERENCE: PI-0398 PCT
37 ; CURRENT APPLICATION NUMBER: PCT/US02/10818
38 ; CURRENT FILING DATE: 2002-04-05
39 ; PRIOR APPLICATION NUMBER: 60/282,119; 60/283,588; 60/283,759; 60/285,589; 60/287,460; 60/287,036; 60/288,608; 60/288,712; 60/289,909; 60/292,246
40 ; PRIOR FILING DATE: 2001-04-06; 2001-04-13; 2001-04-13; 2001-04-20; 2001-04-27;
41 ; 2001-04-27; 2001-05-04; 2001-05-04; 2001-05-09; 2001-05-17
42 ; NUMBER OF SEQ ID NOS: 30
43 ; SOFTWARE: PERL Program
44 ; SEQ ID NO 20
45 ; LENGTH: 2386
46 ; TYPE: DNA
47 ; ORGANISM: Homo sapiens
48 ; FEATURE:
49 ;
50 ;

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; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No: 7472696CB1
PCT-US02-10818-20

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| | | | | |
|-----------------------|--------------|--------------------|-----------------|--------------------|
| Query Match | 23.5%; | Score 185.6; | DB 1; | Length 2386; |
| Best Local Similarity | 55.6%; | Pred. NO. 5.8e-39; | | |
| Matches 434; | Conservative | 0; | Mismatches 319; | Indels 27; Gaps 3, |

[illegible]

```

? PRIOR APPLICATION NUMBER: 60/129,533
? PRIOR FILING DATE: 1999-04-16
? NUMBER OF SEQ ID NOS: 17
? SOFTWARE: FastSeq for Windows Version 4.0.
? SEQ ID NO 3
? LENGTH: 5007
? TYPE: DNA
? ORGANISM: Homo sapiens
? FEATURE:
? NAME/KEY: CDS
? LOCATION: (97)..(4926)
? OS: 386-473b-3

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| | | | | |
|-----------------------|-----------------|--------------------|------------|--------------|
| Query Match | 16.0%; | Score 126.2; | DB 5; | Length 5007; |
| Best Local Similarity | 49.9%; | Pred. No. 1.8e-23; | | |
| Matches 394; | Conservative 0; | Mismatches 368; | Indels 27; | Gaps 2 |

| | | | |
|------|------|--|------|
| QY | 1 | 1aagacatctgagagagacgtgagagctggacaggttcacatctcgtgaaagagctgcggag | 60 |
| | | | |
| Db | 424 | tcttgaggtccaaagagagacatctgaaagggtcgctgtttcttgcttcataaagagctgcagac | 483 |
| | | | |
| QY | 61 | aagagacacagggctctgagatctgcacagccaaagctctacacaaagagcggacagcggagac | 120 |
| | | | |
| Db | 484 | aaagagaaacagatcttggtgcgtgcacaaagtccatcccttaagtgagcga----- | 534 |
| | | | |
| - QY | 121 | cggtcggtgtgtgagccggagagagatcggagcgggaggtgagacatcctgctgacagtgctg | 180 |
| | | | |
| Db | 535 | -----actcggggcccaagagacatacagggagagagacatcctgcgcgcgtctgagc | 582 |
| | | | |
| QY | 181 | caacacaaatgcatcatcagctctgcacgaagctctcaatgaaagagccacccggagctgacatc | 240 |
| | | | |
| Db | 583 | caaccccggtgcacaggggtcgtctgagacaaagttctgagacccggacagaccctcaacccatc | 642 |
| | | | |
| QY | 241 | cttgagctagatgtctgagagagagctcttcgaattcttcctggtcccaagagagatcacctgag | 300 |
| | | | |
| Db | 643 | ctggagctggtgctacatcccgagagagctgctgagaccggctctgacagggagagggcggtgagc | 702 |
| | | | |
| QY | 301 | ggagggagggggccacacagctctcatctaaagacagatcctgagatgggtgtgaaactcttcaca | 360 |
| | | | |
| Db | 703 | gagggccgggggtccaaaggtctcaaacatcaagacagctggtgagaggggtctgacatccgtgc | 762 |
| | | | |
| QY | 361 | aagaaaaatgtgcacatcttgatctcaagaccagaaagaaacatagtctgtctaaagaaatatt | 420 |
| | | | |
| Db | 763 | catggcgtctctccacccgtgcgaataaagccctctcaacatccctgagtgt-----gcatcct | 816 |
| | | | |
| QY | 421 | cccatccacacacatcaagcgtgattgacttggctcgtgctctacagaaatagagagatgagatt | 480 |
| | | | |
| Db | 817 | gcccggagagacatctaaacatctgcgaattctgtgctctgcacagaaacatcacccacagagg | 876 |
| | | | |
| QY | 481 | gaatttaagaaatatcttggtgagcggcggaaattgtgtctccacgaaattgtgatacagag | 540 |
| | | | |
| Db | 877 | ctgcagttccagccaggtccggctccctctgagatctcgtctcccccgagatctcacagagaac | 936 |
| | | | |
| QY | 541 | cccccgtggtctcgtgagcctgcacatgtgtgagagatagtgcctacacatccctcttaagt | 600 |
| | | | |
| Db | 937 | ccgtgagcgtgagcgtccgcacatttggtgcacatggtgtatcatctccatccctcagcctgac | 996 |
| | | | |
| QY | 601 | ggagacatccctcttcctcggtgagagacagagcagaaacacgtgcagaaatacatcatcagtg | 660 |
| | | | |
| Db | 997 | tgctcatatcccatctgtgcggcgtgagagtgagaccgtgcacacctctcgaaacgtctccgtgag | 1056 |
| | | | |
| QY | 661 | agttacgacttgatgtgagagatctctcacagccatagagagagagctggtccaaagagattatt | 720 |
| | | | |
| Db | 1057 | cggtgctgcacatgagagcagcccatggtcgtgcacacatctacagagagccaaagattctatc | 1116 |
| | | | |
| QY | 721 | cggagagctctctgttcaagagacccgggaaacgggtctacacatcaagagagctctgcagaa | 780 |
| | | | |
| Db | 1117 | aaggtactagctgacagagagacccctcaaggtccctcaggtcggtcccaatgtcctctccac | 1176 |
| | | | |
| QY | 781 | ccctgagatc 789 | |
| | | | |
| Db | 1177 | ccctggtctc 1185 | |

| QY | Db | QY | Db |
|-----|--|-----|--|
| 631 | catcgcgagcgagcgcgccaaagactatttcggaagcttcggtgtaagagaccggaaa | 751 | cggttcacaaatcccaagagcgctctctcagaacaccctcgatc |
| 835 | gaagtgctcttaaatgcgaagagcttgcataaaagccatctgtttcgtatcccaagaa | 895 | cgagctgatacatattccaagccctcacaacaccatcgagtc |

```

RESULT      9
PCT-US02-10786-1
: Sequence 1, Application PC/WTUS0210786
: GENERAL INFORMATION.
:   APPLICANT: LEXICON GENETICS INCORPORATED
:   TITLE OF INVENTION: Novel Human Kinases and Polynucleotides Encoding the Same
:   FILE REFERENCE: LEX-0332-PCr
:   CURRENT APPLICATION NUMBER: PCT/US02/10786
:   PRIOR FILING DATE: 2002-05-04
:   PRIOR APPLICATION NUMBER: US 60/282, 036
:   NUMBER OF SEQ ID NOS: 6
:   SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1
:   LENGTH: 2337
:   TYPE: DNA
:   ORGANISM: homo sapiens
PCT-US02-10786-1

```

| | Query Match | 14.2% | Score 112; | DB 1; | Length 2337; |
|----|-----------------------|---|---------------------|-----------------|--------------------|
| | Best Local Similarity | 52.6%; | Pred. No. 7, 2e-20; | | |
| | Matches 300; | Conservative | 0; | Mismatches 255; | Indels 15; Gaps 2; |
| QY | 88 | aagttcatcaagaagcgccgacgagcgcggcgccgacgcgcgcgtcttgagccggcgaggatc | 147 | | |
| Db | 175 | aaagtctgccaccatcaaatctgtgaaccggcgagaaactcttcgagctgcgttgtatgaagcgtg | 234 | | |
| QY | 148 | gaacgggaagatgagcaatctctgcgcgcgcgcgtgcctcacacaalgttatcactgcgtccacgc | 207 | | |
| Db | 235 | gaagcggagatctgcatactcttcgaagcccalcgaaacacccaagctcccaagctcccaagc | 294 | | |
| QY | 208 | gtctatgaagaaccgcgcgcgcgcgtgtgtgcacatctcttgacctgtgtcttgaagagatcc | 267 | | |
| Db | 295 | gtctaacgaagaacaagaatatattgtaccctgtctcttgagacagatctcgcgtgcgggtagcta | 354 | | |
| QY | 268 | tctgatcttcctggcccagaagagatcaactgtagtgaagagagcgccacccgcgtcttaag | 327 | | |
| Db | 355 | tctgcatacctgtlaaagaaggcgagactgcagcccaagcgagcccgaaagtcttcgcgc | 414 | | |
| QY | 328 | cagatctctgtagatgggtgtgactactcttcacacaaaagaataatgtctoaactltgatctcaag | 387 | | |
| Db | 415 | cagatctgtgtctgcgtctgcgaactcttcgcaccaactcatctctgcacagaacttaag | 474 | | |
| QY | 388 | ccaagaanaacatctgttgtttagacagaagatatctccatccacacatcaagctgtgtgac | 447 | | |
| Db | 475 | cccggaaacctgtcttgtatgataaaaaa-----acatcgcattgcagac | 522 | | |
| QY | 448 | tctgtctctgcgtccagaaatagaagaatgagttgatttaagaataattttvggaagcgcg | 507 | | |
| Db | 523 | tctgcgcagatgcgtccctctgcaggttggggagacagctctctgcgaagcaagctctgcgtcccc | 582 | | |
| QY | 508 | gaattctgtgtccaga---aatgtgaactacgaagcccttcgggtcttgcgagctgacatg | 564 | | |
| Db | 583 | catctgcgtgtccacagaagtgtattaaaggggaaaaatatgtatgcygcgcggcagacatg | 642 | | |
| QY | 555 | tggagacatagatggttatcaaccatactctcttaagtgtgagatcocccttcccttcggagac | 624 | | |
| Db | 643 | tggagctgtgagatcatctctcttcgcgcctgtctgtggggctctgcgccttctgattgaagac | 702 | | |
| QY | 625 | acgaagcaggaacaacatgccaataatcaca | 654 | | |
| Db | 703 | aaacttcgcgcagctgtcttgagaaggtgaaa | 732 | | |

```

RESULT 10
US-10-116-326-1
; Sequence 1, Application US/10116326
; GENERAL INFORMATION:
; APPLICANT: Turner, C. Alexander Jr.
; APPLICANT: Mathur, Brian
; APPLICANT: Friddele, Carl Johan
; TITLE OF INVENTION: Novel Human Kinases and Polynucleotides Encoding the Same
; FILE REFERENCE: LEX-0332-USA
; CURRENT APPLICATION NUMBER: US/10/116,326
; CURRENT FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/282,036
; PRIOR FILING DATE: 2001-04-06
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2337
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-116-326-1

```

| Query Match | 14.2% | Score 112 | DB 6 | Length 2337 |
|-----------------------|--------------|---|----------------|-------------|
| Best Local Similarity | 52.6% | Pred. No. 7,2e-20 | | |
| Matches 300 | Conservative | 0 | Mismatches 255 | Indels 15 |
| | | | Gaps 2 | |
| QY | 88 | aagttcataagaagcgcgcagagccggcgccggcgccggcgccggtgtgtgagccgggagagatc | 147 | |
| Db | 175 | aaagttccatcaataagatctcgtaaccgggagaaagcttctcgagatctggtgtgtatgaaagtg | 234 | |
| QY | 148 | gaagcgggaggtgagcatcttcgcgcgcggcggtgcgcgcgcacacaaatgtaactcagcttgagac | 207 | |
| Db | 235 | ggagcgggagatccgcacatcttcgtgagctccatcgaaacacacacagttctcctaagttcacgac | 294 | |
| QY | 208 | gctcttgaaagacgcgcacgcgacgtgtgtgacatctcttgagctagtggtgtgagagagctc | 267 | |
| Db | 295 | gctcaagaaagaaagaaatattgttaacctgtgttcgtgagacagctgtctcggtgggtgtagtba | 354 | |
| QY | 268 | ttcgaatttcctgcccgaagagagctacatgagtgaggggagagccacacagcttcataag | 327 | |
| Db | 355 | ttcgactaacctgttaagaagagggagctgacgtacgcgccaaagagggccgaaagtcttcgcg | 414 | |
| QY | 328 | cagatccctgagtgagggtgttaactactcttacaacaaagaataatgtgcactttgattctcaag | 387 | |
| Db | 415 | cagatgtgtctgcgcgcggaccttcgcgcacacactctccatctgcacaaagagacttcaag | 474 | |
| QY | 388 | ccagaacacatattgtgttgtagacaagaataattccatcttcacacatcaagctgtattac | 447 | |
| Db | 475 | cccgagaaacctgtcttcttgatgtagaaaaaca-----acatcgcattgtagac | 522 | |
| QY | 448 | tttgctgcgcgtccagaagaatagaaatgtaggtgtgaatttaagaatatatttggaagcgcg | 507 | |
| Db | 523 | ttcgccatgvggttcctctgcaggttgvgggacagcctctccgtgagacacagctgcgggtctccc | 582 | |
| QY | 508 | gaatttgtctccaaga---aatgtgaactacagagccctcggtgtctgagacgcgtacatg | 564 | |
| Db | 563 | catatgctgttccagaagtgatataaggggaaaaataatgatactgcgcgcgcgcagacatg | 642 | |
| QY | 565 | tggagcatagacgctacacatcaatccctcttgaagtgagagataccctcttctctggagac | 624 | |
| Db | 643 | tggagctgtgtagatcatcctcttcgacctgtgtgvggggtcctgcgcctctgatatgacgac | 702 | |
| QY | 625 | acgaagcaggaacacatggcacataatcacca | 654 | |
| Db | 703 | aaccttcgacagctgcgtggaaggtgaaa | 732 | |

RESULT 11
US-09-053-375B-171
; Sequence 171, Application US/09053375B
; GENERAL INFORMATION:

```

: APPLICANT: Cherkashk, Alex
: APPLICANT: Bblshavlill, Robert
: TITLE OF INVENTION: Nucleic Acid Arrays
: FILE REFERENCE: CLON-006
: CURRENT APPLICATION NUMBER: US/09/053,375B
: CURRENT FILING DATE: 1998-08-31
: NUMBER OF SEQ ID NOS: 1543
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO: 171
: LENGTH: 1640
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-09-053-375B-171

```

| | | | | |
|-----------------------|----------------|-------------------|----------|-------------|
| Query Match | 13.9% | Score 109.4 | DB 5 | Length 1640 |
| Best Local Similarity | 50.4% | Pred. No. 3.1e-19 | | |
| Matches 322 | Conservative 0 | Mismatches 311 | Indels 6 | Gaps 2 |

[illegible]

```

RESULT 12
PCT-US02-10786-5
: Sequence 5, Application PC/TUS0210786
: GENERAL INFORMATION:
: APPLICANT: LEXICON GENETICS INCORPORATED
: TITLE OR INVENTION: Novel Human Kinases and Polynucleotides Encoding the Same
: FILE REFERENCE: LEX-0332-PCt
: CURRENT APPLICATION NUMBER: PCT/US02/10786
: CURRENT FILING DATE: 2002-05-04

```

```

? PRIOR APPLICATION NUMBER: US 60/282,036
? PRIOR FILING DATE: 2001-04-06
? NUMBER OF SEQ ID NOS: 6
? SOFTWARE: FASTSEQ for Windows Version 4.0.
? SEQ ID NO 5
? LENGTH: 2112
? TYPE: DNA
? ORGANISM: homo sapiens
? COT-0502-10786-5

```

| | | | | |
|-----------------------|--------------|--------------------|-----------------|-------------------|
| Query Match | 13.2%; | Score 103.8; | DB 1; | Length 2112; |
| Best Local Similarity | 53.2%; | Pred. No. 9.4e-18; | | |
| Matches 275; | Conservative | 0; | Mismatches 227; | Indels 15; Gaps 2 |

| | | | |
|----|-----|--|-----|
| OY | 141 | ggaatcagcagggagagtgaaagcattccgctcgcggaagtgctgacacacatgttaacagct | 200 |
| | | | |
| Db | 3 | gaagagtgagagcggagagatcgcatacctcgaaagctcatatcgaaaccccaatgttctctaaagct | 62 |
| OY | 201 | gcacgaagctctatagaacacgcacacgaagctggtgtacacatcccttgaagcttagtgtctggaag | 260 |
| | | | |
| Db | 63 | ccaagacgctctacagacaagaataattgttaacctgttctctgtgacgctctccggg | 122 |
| OY | 261 | agaagctctgaattccctcgcccaagaagagagctcaactgaagtagagagagacacacagct | 320 |
| | | | |
| Db | 123 | tgaagctatctgaactaccctggtgaagaagggagagactgacgcgccaaagagagcccgaaagct | 182 |
| | | | |
| OY | 321 | gattaaagcagaatctctgtgagtgggtgaaactacatctcaacaaagaanaattgtctcaattga | 380 |
| | | | |
| Db | 183 | cttcgcagagattgtgtctgctgctgagactcttcgcacagcttaactccatctgcacagaaga | 242 |
| OY | 381 | tctcaagcccaaaaaacattatgattgttgaagcaagaataatccatctccacacatcaagct | 440 |
| | | | |
| Db | 243 | ccctaaagcccgagaacactcgctcttctgtgattgaataaaaaa-----acatccgcat | 290 |
| OY | 441 | gattgaacttvtgtcgtgctcagaataatagaagatgtagatgtaatttaagaataattttg | 500 |
| | | | |
| Db | 291 | tgcagaaactgcgcatggtgtccctcgacaggtgtggtgggacagctctctggaagccagctgtcg | 350 |
| OY | 501 | gaagcgcgaattttgtgctccagaagaatttgaaacttagagccct---gggtcttgagagc | 557 |
| | | | |
| Db | 351 | gtccccccattatgctgtgtccagaaggttgattaaaggggaaaaataatagatggtccgcgggc | 410 |
| OY | 558 | tgaactatgtgagcatalagcgttcacacatcaatcatcttctaagtgaagacatccctctcct | 617 |
| | | | |
| Db | 411 | agacatgtggagcgtgtgtagtcatcctctctgcgcctctgctgtggtggcctgtgcctttga | 470 |
| OY | 618 | ggagagacacgaagacagaataacatgacgaatatatcac | 654 |
| | | | |
| Db | 471 | tgaagcaaacctccgcagcgtgtctgtggaaggtgaaaa | 507 |

```

RESULT 13
US-10-116-326-5
: Sequence 5, Application US/10116326
: GENERAL INFORMATION:
: APPLICANT: Turner, C. Alexander Jr.
: APPLICANT: Mathur, Brian
: TITLE OF INVENTION: Novel Human Kinases and Polynucleotides Encoding the Same
: FILE REFERENCE: LEX-0332-USA
: CURRENT APPLICATION NUMBER: US/10/116,326
: CURRENT FILING DATE: 2002-04-04
: PRIOR APPLICATION NUMBER: US 60/282,036
: PRIOR FILING DATE: 2001-04-06
: NUMBER OF SEQ ID NOS: 6
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 5
: LENGTH: 2112
: TYPE: DNA
: ORGANISM: homo sapiens
US-10-116-326-5

```


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